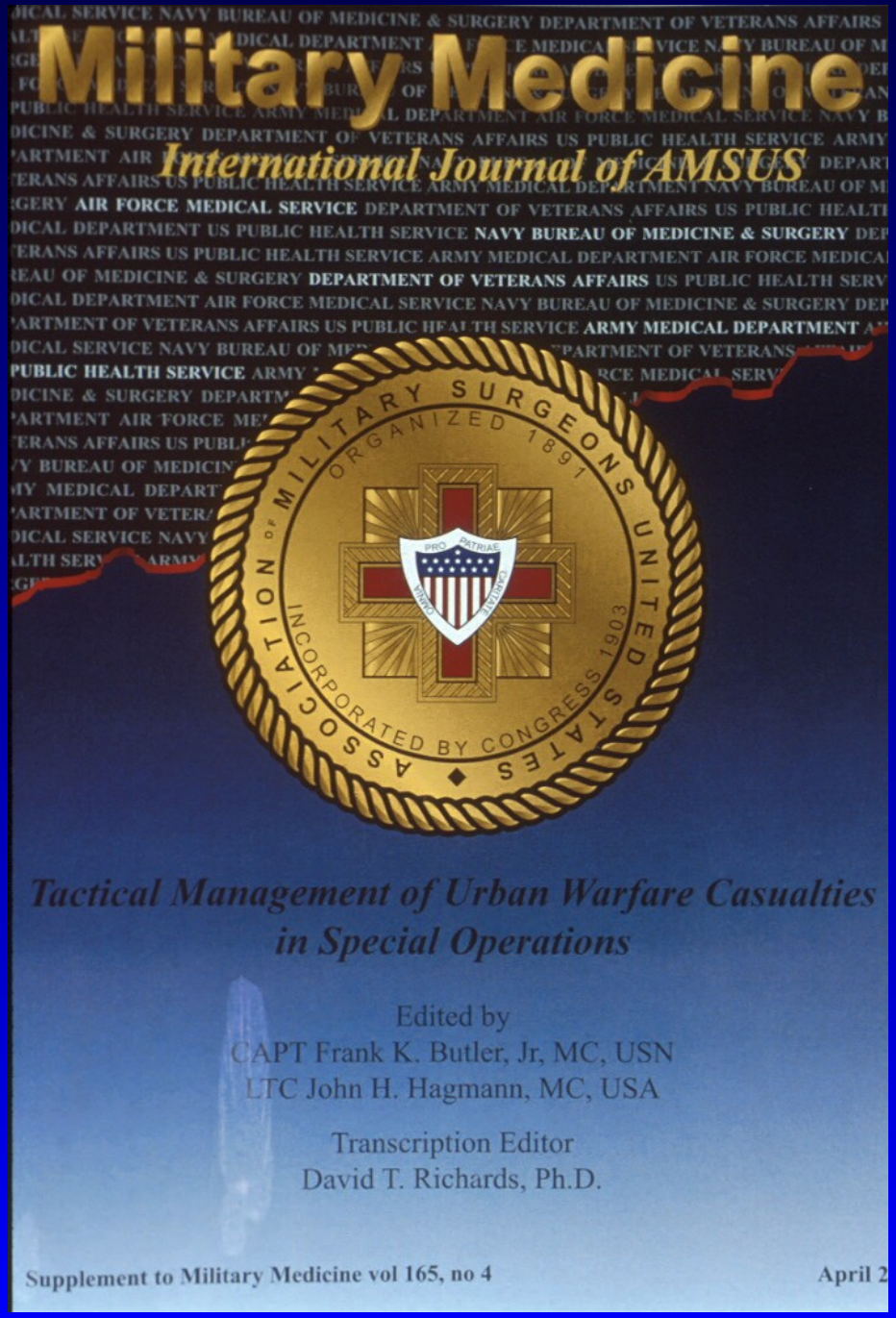
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Tactical Management of Urban Warfare Casualties in Special Operations
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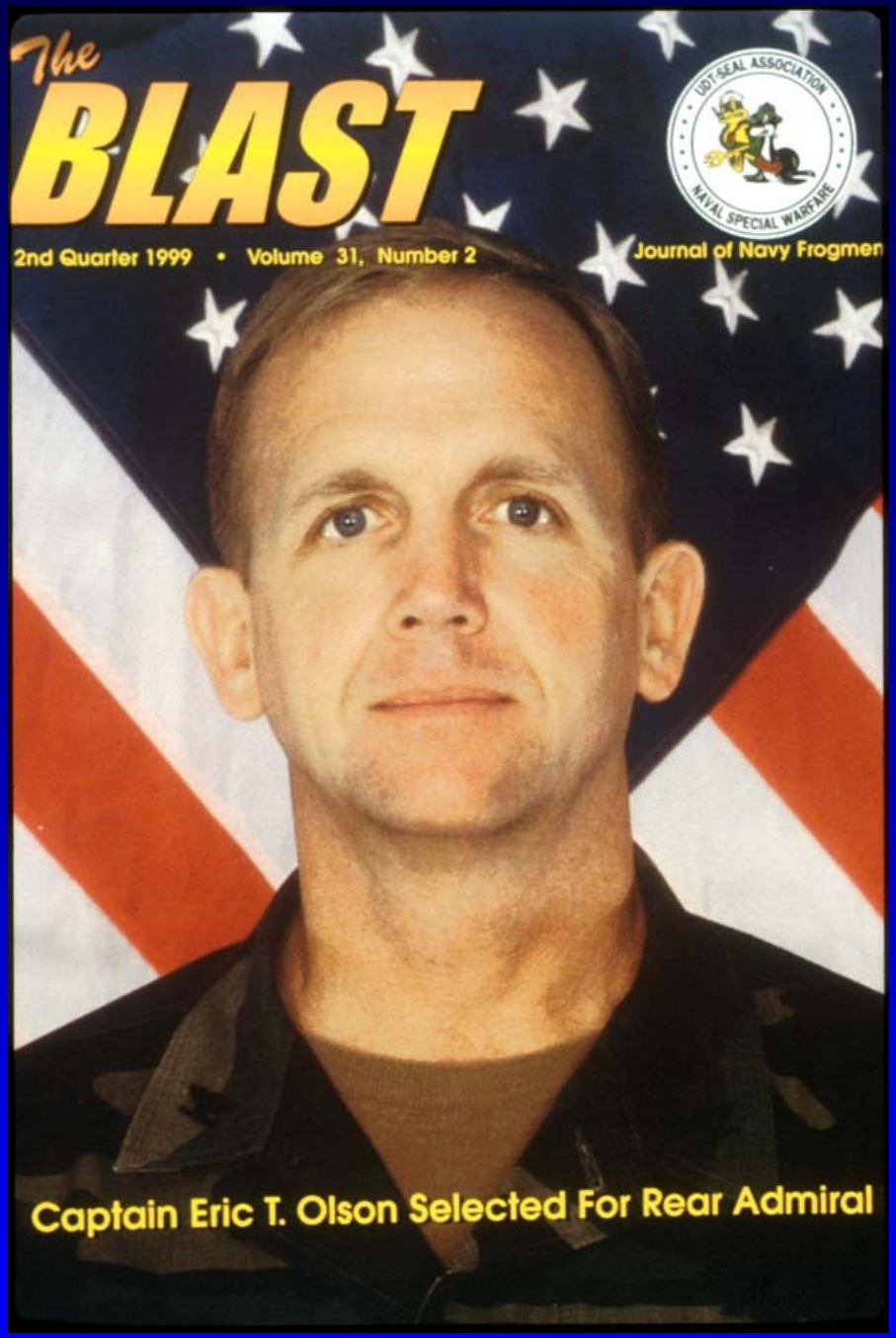
Mogadishu: The Tactical Medicine Less d

CAPT Frank Butler


The
BLAST
UDT SEAL ASSOCIATION
NAVAL SPECIAL WARFARE
2nd Quarter 1999 • Volume 31, Number 2
Journal of Navy Frogmen
Captain Eric T. Olson Selected For Rear Admiral

RADM Eric Olson

In every scenario, there is a larger mission that the Commander has to execute and I think one of the primary responsibilities of anybody providing medical care is to not hinder the execution of the larger mission.

Tactical Medicine for NSW Mission Commanders

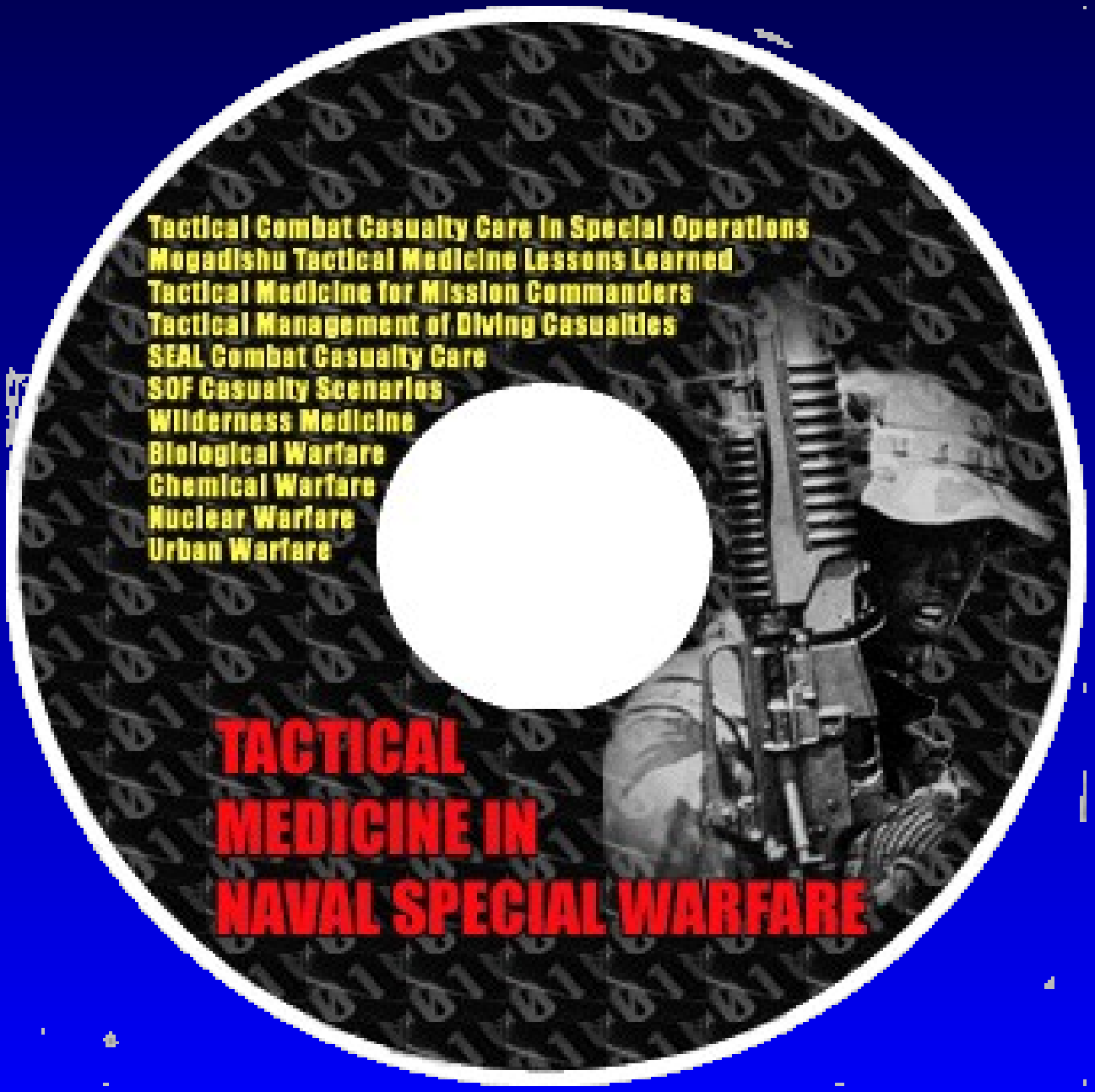
- The corpsman takes care of the casualty but
- The mission commander runs the mission.
- What's best for the mission and what's best for the casualty may be in direct conflict.
- Important to know different standard of care
- May be no corpsman in the element
- Corpsman may be first team member shot.

Observation

- **It is obviously not possible to plan for *every* casualty scenario that might be encountered.**
- **That doesn't mean we shouldn't plan for *any* of them.**
- **Pick the Top Five**
- **Where can you find casualty scenarios to go over?**

The SEAL Tactical Medicine CD

- **All 6 workshop reports**
- **275 SOF Casualty Scenarios**
- **Tactical Medicine for Mission Commanders Presentation**
- **TCCC Presentation**
- **Mogadishu: The Tactical Medical Lessons Learned Presentation**


Tactical Combat Casualty Care In Special Operations
Mogadishu Tactical Medicine Lessons Learned
Tactical Medicine for Mission Commanders
Tactical Management of Diving Casualties
SEAL Combat Casualty Care
SOF Casualty Scenarios
Wilderness Medicine
Biological Warfare
Chemical Warfare
Nuclear Warfare
Urban Warfare
TACTICAL
MEDICINE IN
NAVAL SPECIAL WARFARE

What can we do to decrease combat fatalities?

- 1. TCCC training
- 2. Better tactics for casualty scenarios
- 3. Tourniquets
- 4. Tension pneumothorax dx and rx
- 5. Hemostatic dressings

What can we do to decrease combat fatalities?

- 6. Intra-abdominal and intrathoracic hemorrhage control
- 7. Better fluid resuscitation strategies
- 8. Battlefield antibiotics
- 9. Better analysis of past casualties
- 10. DOD Tactical Medicine Committee

What can we do to decrease combat fatalities?

1. TCCC Training

- **Combat medics**
- **Mission commanders**
- **Other combatants**

What else can we do to decrease combat fatalities?

2. Better tactics for casualty scenarios

Casualty extraction assets

Better area denial techniques

Israeli Merkava

Bradley Fighting Vehicle

AFSOC - Arriving

What else can we do to decrease combat fatalities?

3. Tourniquets

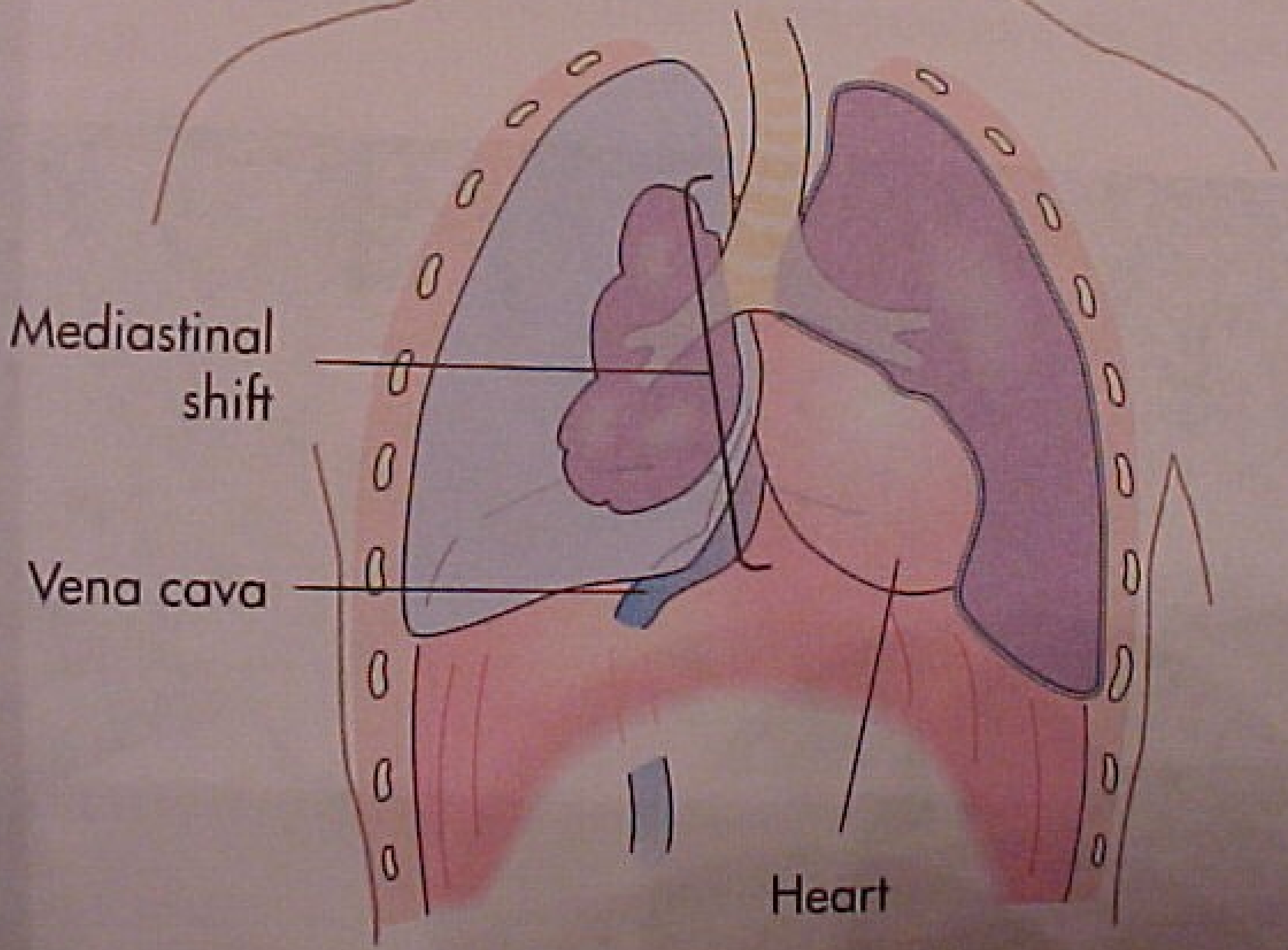
Better design

Better training

Better employment

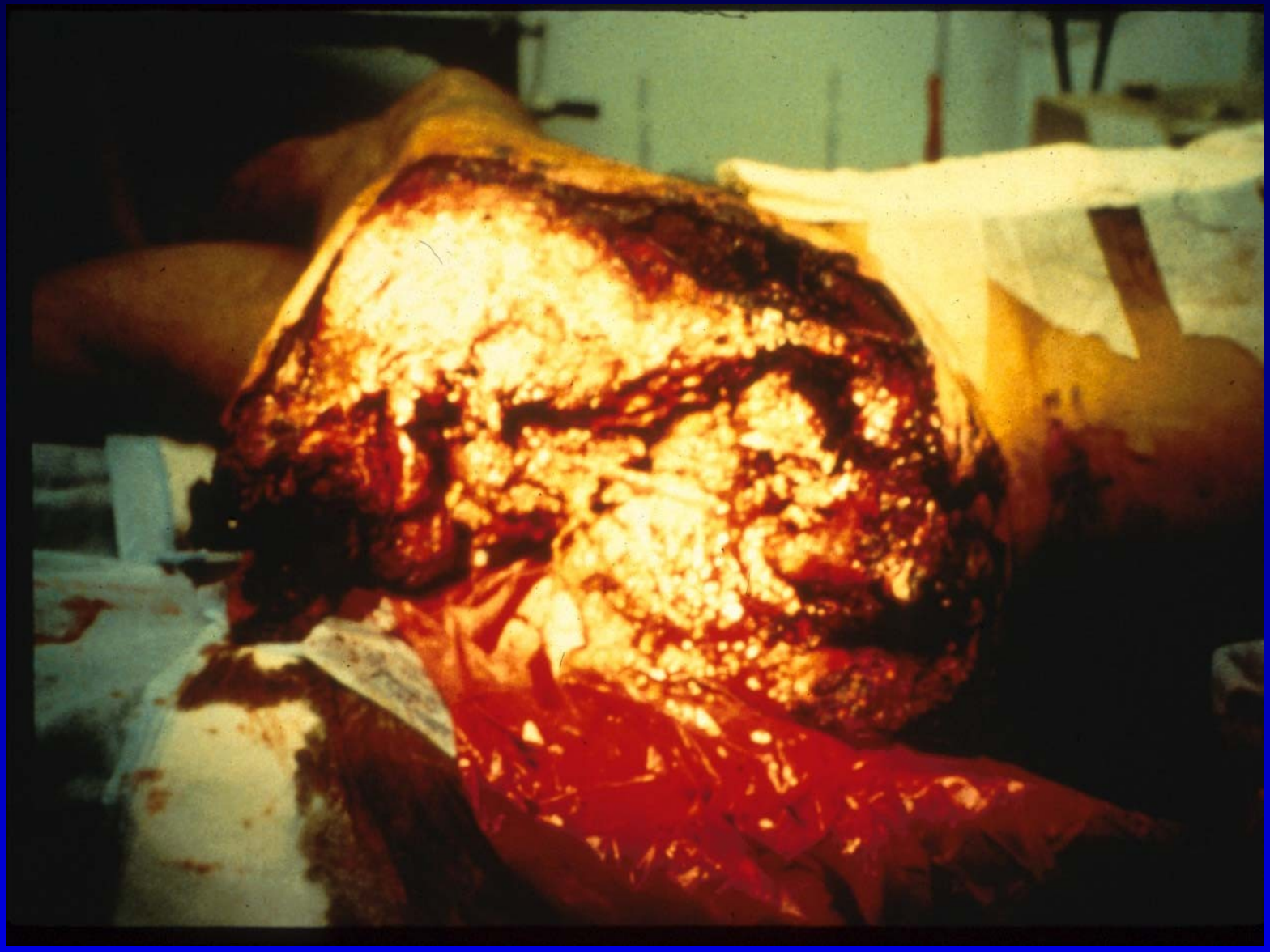
What can we do to decrease combat fatalities?

4. Tension pneumothorax dx and rx


Mediastinal shift
Vena cava
Heart

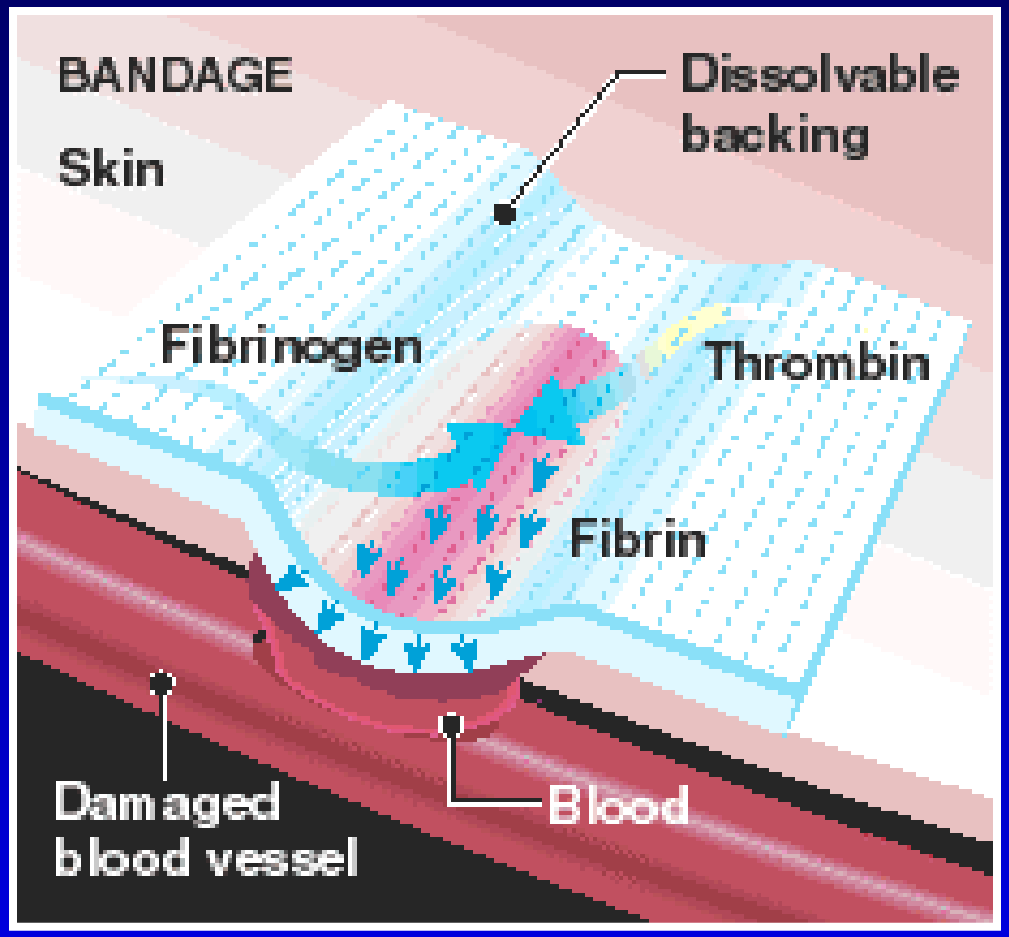
What else can we do to decrease combat fatalities?

5. Hemostatic Dressings



RPG wound of left hip

Dry Fibrin Bandage



Dry Fibrin Bandage Hemostatic Dressing

- **Funded for two years by USSOCOM**
- **ISR - LTC John Holcomb**
- **WRAIR - COL John Hess**
- **American Red Cross**
- **Excellent performance in animal testing**
- **Project now funded for FDA trials by MRMC**

What else can we do to decrease combat fatalities?

6. Approval and fielding of technologies to control intraabdominal or intrathoracic bleeding

Factor VIIa

Fibrin Foam

What can we do to decrease combat fatalities?

7. Better Fluid Resuscitation Strategies

- **Controlled + Uncontrolled Hemorrhage**
- **FDA approved fluids**
- **Combat appropriate animal models**
  - **Delayed definitive care**
  - **High velocity rounds**
  - **Limited fluid resources**
  - **Limited monitoring capability**

What can we do to decrease combat fatalities?

8. Battlefield Antibiotics

Cefoxitin vs cefotetan?

PO fluoroquinolones?

What can we do to decrease combat fatalities?

- **9. Better analysis of past casualties**
  - **WDMET Data**
  - **Mabry et al Mogadishu paper**
  - **Ongoing project**
  - **Standardized methodologies**
  - **Non-US conflicts**
  - **Identify preventable deaths**

What can we do to decrease combat fatalities?

10. DOD Tactical Medicine Committee

- **Standing committee**
- **DOD sponsorship**
- **Combat trauma focus**
- **Monitor literature**
- **Periodic updates to guidelines**
- **Input for medical R+D efforts**

Comments/Questions?